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artment of cycletture

Soil Conservation Service

Casper, Wyoming



Wyoming Water Supply Outlook

March 1, 1986



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Wyoming Water Supply Outlook and

Federal-State-Private
Cooperative Snow Surveys

Issued by

Wilson Scaling Chief Soil Conservation Service Washington, D.C.

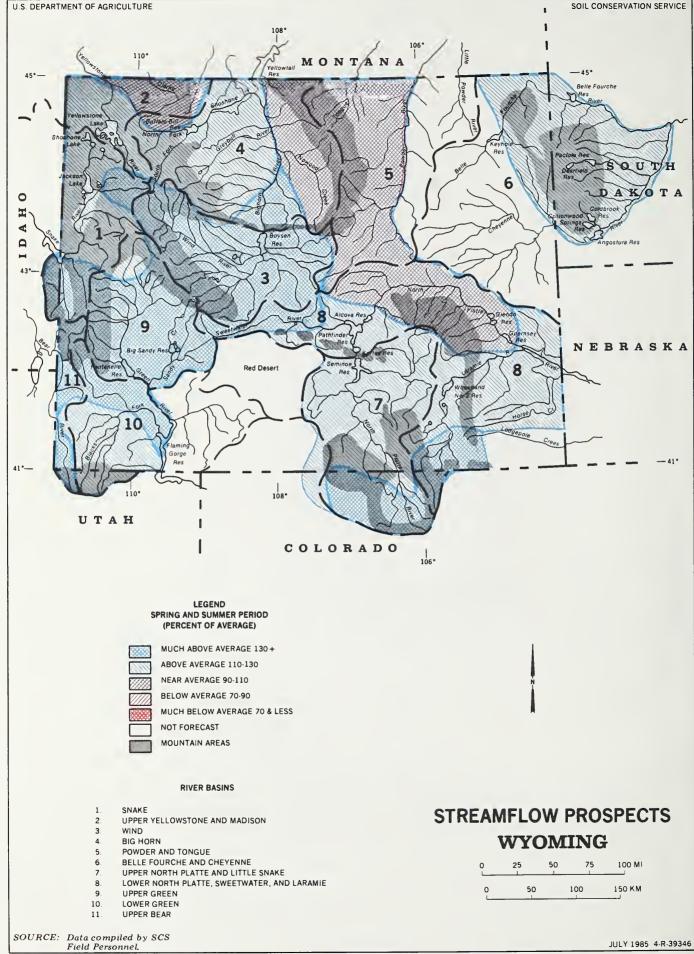
Released by

Frank S. Dickson State Conservationist Soil Conservation Service Casper, Wyoming

Prepared by

Ted Gilbert Acting Water Supply Specialist Soil Conservation Service Room 3124, 100 East B Street Casper, Wyoming 82601

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USDA-SCS FORT WORTH, TEXAS 1985

GENERAL OUTLOOK

SUMMARY:

FEBRUARY WAS A MONTH OF CONTRASTS. FROM RECORD BREAKING TEMPERATURES, BOTH HIGHS AND LOWS, TO RECORD OR NEAR RECORD SNOWPACK DEPTHS. WINTER STORMS DUMPED SNOW IN THE WESTERN PART OF THE STATE IN RECORD AMOUNTS. SOME SNOW COURSES SHOW ACCUMULATED SNOWPACK AS MUCH AS 100% ABOVE NORMAL. HEAVY WINDS THAT ACCOMPANIED THE STORMS ALONG WITH WARMING TEMPERATURES TRIGGERED AVALANCES IN MANY AREAS OF WESTERN WYOMING. STREAMFLOW PROSPECTS FOR THE STATE REMAIN BRIGHT FOR SPRING AND SUMMER. RUNOFF WILL BE FROM NEAR AVERAGE TO MUCH ABOVE AVERAGE IF PRESENT TRENDS CONTINUE.

SNOWPACK:

A series of winter storms pushed the snowpack to record or near record levels in several areas of the state. Most snow accumulation was experienced in the Wind River, Wyoming, Teton, Gros Ventre and Absaroka Ranges in the north and west part of the state, and the Snowy and Sierra Madre Ranges in the south. The snowpack in these areas range from 30% to 100% above normal. Snowpack accumulation for the remainder of the state is near or slightly above average. The exception to the rule is the Casper Mountain and Muddy Mountain areas on the northwest flank of the Laramie Mountain Range in centeral Wyoming. These areas are about 5% below normal.

PRECIPITATION:

February total precipitation at almost all stations were near normal or much above normal. Excessive snowfall occurred in extreme western Wyoming. Amounts up to 7 1/2-inches of water equivalent were common in the Star Valley area northward into the Tetons. Elsewhere, averages were normal to slightly above normal. Seasonal comparisons were mostly 25% to 100% above normal. Extreme northwest areas, including the Snake drainage were almost 200% above normal. East of the Big Horns...the Little Missouri and Tongue drainages were up to 130% above normal.

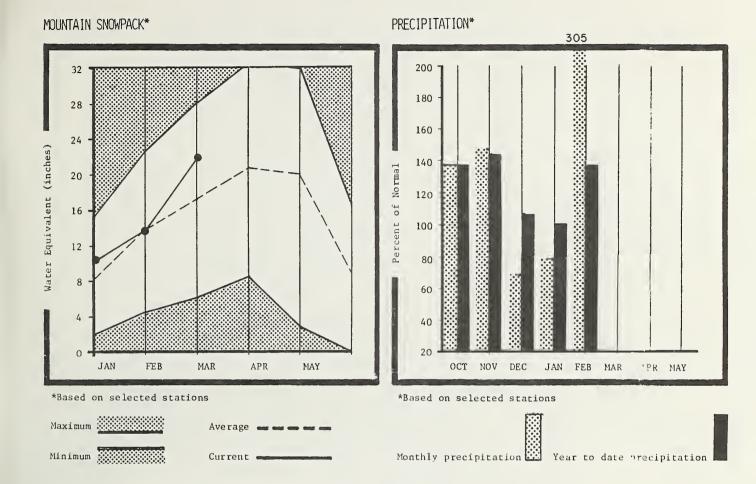
RESERVOIRS:

Major reservoir storage in the state is generally less than at this time last year. When compared to the long term average, present storage is about 8% above normal.

STREAMFLOW:

Streamflow prospects for the spring and summer brightened during the month of February. Most encouraging was the improvement of flow prospects for the Lower Clarks Fork and Shoshone drainages. users in these drainages can expect normal to slightly above normal streamflows. The Upper North Platte, Sweetwater and Upper Laramie drainages in the south and south central part of the state can expect runoff to average from 30 to 50 percent above normal. The Upper Bear River, Upper Green River and Upper Wind River drainages can expect runoff to be 35 to 100 percent above normal. Streamflow predictions for the remainder of the state show normal or slightly above normal flows can be expected. These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to the water user.

SNAKE RIVER BASIN



WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin show expected flows to be 20 to 36 percent above average. Snowpack buildup for the month took a jump with all stations well above average. Some were as much as 50% above average. Precipitation set records at several stations. The monthly precipitation was about 200% above normal, with the year to date precipitation being 37% above average. Reservoir storage with the exception of Jackson Lake is above average.

For more information contact your local Soil Conservation Service office.

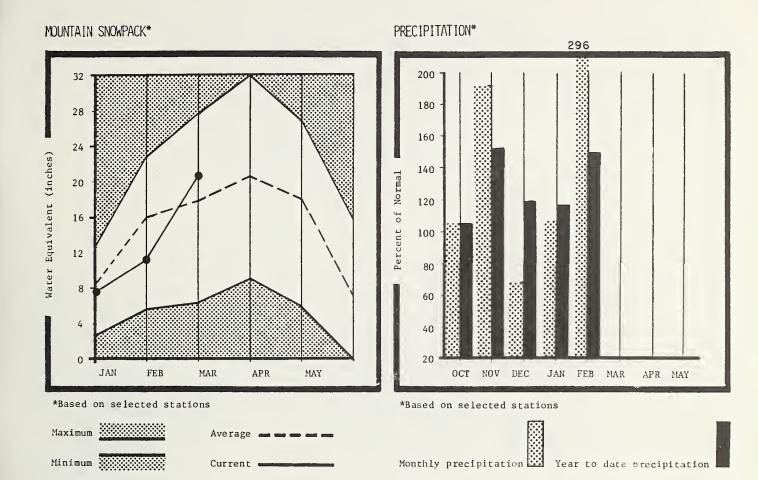
SNAKE RIVER BASIN

FORECAST FOINT	FORECAST	20 YR. AVE.	MOST PROBABLE	MOST PROBABLE	REAS.	REAS. MIN.	PEAK FLOW	PEAK	LOW FLOW	LON
	PERIOO	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	OATE	(CFS)	DATE
SNAKE RIVER near Moran *	AF:R-SEF	880.0	1070.0	121	138	106				
SNAKE RIVER above Palisades *	APR-SEP	2730.0	3281.0	120	136	104				
SNAKE RIVER at Heise, ID *	APR-SEP	4066.0	5080.0	124	149	101				
PACIFIC CREEK at Moran	APR-SEP	174.0	237.0	136	159	113				
GREYS RIVER above Palisades	APR-SEP	393.0	540.0	137	160	115				
SALT RIVER near Etna	AFR-SEP	394.0	570.0	144	184	110				
FALISAGES RESERVOIR Inflow *	APR-SEP	3793.0	4740+0	124	144	106	* * * * * * * * * * * * * * * * * * *			
SWIFT CREEK near Afton	MAY-SEP	46.0	52×6	114	137	91				
2MILL CKEEK WESL WIFOU	MAT-SEP	46.0					::			

	RESERVOIR STORAGE		(1000AF)) 	WATERSHED SN	IONPACK AN	ALYSIS	
RESERVOIR	USEABLE 1 CAPACITY!	** USE THIS	EABLE STOR	AGE **	WATERSHED	NO. COURSES	THIS	YEAR AS % OF
	1	YEAR	YEAR	AVE . I		AVE . D	LAST \	YR. AVERAGE
GRASSY LAKE	15.1	12.9	13.1	10.4	SNAKE above JACKSON LAKE	8	135	129
JACKSON LAKE	624.4	148.8	274,8	553.0	PACIFIC CREEK	2	175	
PALISADES	1200.0	911.4	888.5	851.0 I	GROS VENTRE RIVER	4	176	137
					HOBACK RIVER	7	166	139
					GREYS RIVER	4	166	128
					SALT RIVER		152	195
				::::::::::::::::::: I	SNAKE above PALISADES	29	152	133

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

UPPER YELLOWSTONE AND MADISON RIVER BASINS



WATER SUPPLY OUTLOOK:

Snowpack buildup continues to be above average in the basin. Runoff estimates show that water users can expect near normal to above normal streamflows this spring and summer. February was a wet month for the basin as monthly precipitation amounts were 196% above normal. Year to date precipitation is about 50% above normal. Reservoir storage remains above average with about 73% of the usable capacity being used.

For more information contact your local Soil Conservation Service office.

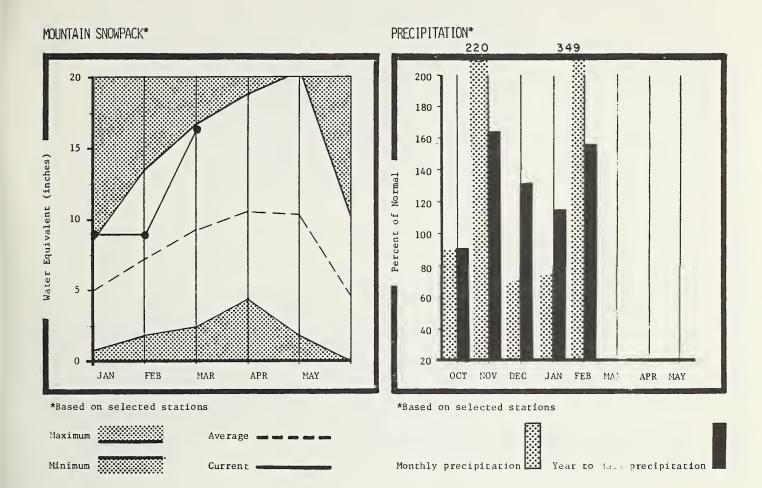
UPPER YELLOWSTONE and MADISON RIVER BASINS

FORECAST	20 YR. AVE.	MOST PROBABLE	MOST PROBABLE	REAS. MAX.	REAS. MIN.	PEAK FLOH	PEAK	LOH FLOH	FOH
PERIOO	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
APR-SEP	826.0	900.0	108	125	93				
APR-SEP	2027.0	1960.0	96	113	81				
APR-SEP	2379.0	2250.0	94	111	79				
APR-SEP	496.0	545.0	169	128	92				
	PERIOO APR-SEP APR-SEP APR-SEP	APR-SEP 2027.0 APR-SEP 2379.0	AVE. PROBABLE PERIOD (1000AF) (1000AF) APR-SEP 826.0 900.0 APR-SEP 2027.0 1960.0 APR-SEP 2379.0 2250.0 APR-SEP 496.0 545.0	AVE. PROBABLE PROBABLE PERIOD (1000AF) (1000AF) (% AVE.) APR-SEP 826.0 900.0 108 APR-SEP 2027.0 1960.0 96 APR-SEP 2379.0 2250.0 94 APR-SEP 496.0 545.0 109	PERIOD AVE. (1000AF) PROBABLE (1000AF) PROBABLE (% AVE.) MAX. (% AVE.) APR-SEP 826.0 900.0 108 125 APR-SEP 2027.0 1960.0 96 113 APR-SEP 2379.0 2250.0 94 111	AVE. PROBABLE PROBABLE MAX. MIN. PERIOD (1000AF) (1000AF) (% AVE.) (% AVE.) (% AVE.) APR-SEP 826.0 900.0 108 125 93 APR-SEP 2027.0 1960.0 96 113 81 APR-SEP 2379.0 2250.0 94 111 79 APR-SEP 496.0 545.0 109 128 92	AVE. PROBABLE PROBABLE MAX. MIN. FLOW PERIOD (1000AF) (1000AF) (% AVE.) (% AVE.) (% AVE.) (CFS) APR-SEP 826.0 900.0 108 125 93 APR-SEP 2027.0 1960.0 96 113 81 APR-SEP 2379.0 2250.0 94 111 79 APR-SEP 496.0 545.0 109 128 92	AVE. PROBABLE PROBABLE MAX. MIN. FLOW PERIOD (1000AF) (1000AF) (% AVE.) (% AVE.) (% AVE.) (CFS) DATE APR-SEP 826.0 900.0 108 125 93 APR-SEP 2027.0 1960.0 96 113 81 APR-SEP 2379.0 2250.0 94 111 79 APR-SEP 496.0 545.0 109 128 92	AVE. PROBABLE PROBABLE MAX. MIN. FLOW FLOW FLOW PERIOD (1000AF) (1000AF) (% AVE.) (% AVE.) (% AVE.) (CFS) DATE (CFS) APR-SEP 826.0 900.0 108 125 93 APR-SEP 2027.0 1960.0 96 113 81 APR-SEP 2379.0 2250.0 94 111 79 APR-SEP 496.0 545.0 109 128 92

	RESERVOIR STORAGE	(1000AF) I	WATERSHED S	NOWPACK AN	ALYSIS
RESERVOIR	USEAELE I CAPACITYI I	** USEABLE STORAGE ** I THIS LAST I YEAR YEAR AVE, I	WATERSHED	NO. COURSES AVE.O	THIS YEAR AS % OF
ENNIS LAKE	41.0	30.1 32.5 35.7	UPPER MADISON RIVER	13	130 121
HEBGEN LAKE	378.0	277,1 305,2 224.6	CLARKS FORK UPPER YELLOWSTONE RIVER	20 17	143 111 145 119

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

WIND RIVER BASIN



WATER SUPPLY OUTLOOK:

Streamflow prospects remain bright for the spring and summer. Flows are predicted to be from 39 to 50 percent above average. Precipitation for the month was the big story in this basin. February precipitation was 249% above average. This precipitation led to a snowpack that is between 50% and 90% above normal. Several snow courses had record depths. All reservoirs in the basin show above average storage quantities.

For more information contact your local Soil Conservation Service office.

WIND RIVER BASIN

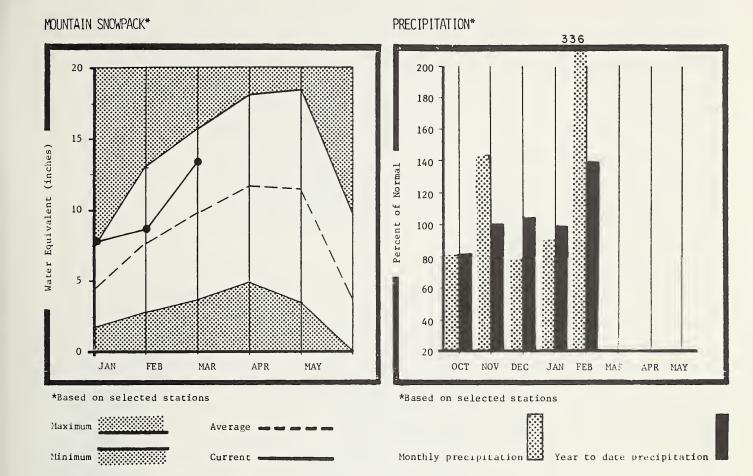
STREAMFLOW FDRECASTS

FDRECAST FOINT	FORECAST	20 YR. AVE.	MDST PROBABLE	MOST PROBABLE	REAS. MAX.	REAS. MIN.	PEAK FLDH	PEAK	LDW FLOW	LDH
	PERIOD	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
WIND RIVER near Dubois	APR-SEP	106.0	152.0	143	167	120				
HTMR STUFFS A ST. A	ADD 050	/70 A								
WIND RIVER at Riverton *	APR-SEP	678.0		149						
WIND RIVER below Boysen *	AFR-SEF	1163.0		150						
,										
BULL LAKE CREEK near Lenore *	APR-SEF	188.0		142						
LITTLE POPO AGIE RIVER mear Lander	APR-SEP	53.0	************	137		· · · · · · · · · · · · · · · · · · ·	:			

	RESERVDIR STORAGE	(1000AF)	WATERSHE	D SNOWFACK AN	ALYSIS
RESERVOIR	USEABLE I CAPACITYI I	** USEABLE STDRAGE ** I THIS LAST YEAR YEAR AVE.	WATERSHED	NO. CDURSES AVE.D	THIS YEAR AS % OF
EULL LAKE	151.1	43.7 89.9 88.0	UPPER WIND RIVER	11	213 150
BOYSEN	549.9	602.1 321.8 295.0	WIND above RIVERTON	19	224 161
PILDT BUTTE	31.6	25.0 23.5 15.4	POPD AGIE	4	222 191
			WIND above EDYSEN		224 166

*Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

BIGHORN RIVER BASIN



WATER SUPPLY OUTLOOK:

Precipitation during the month has greatly brightened the runoff prospects. Streamflows are expected to be near normal or slightly above normal, with the Greybull and Shoshone drainages being nearly 20% above average. Precipitation for the month in the basin was about 230% above normal. Snowpack accumulation remains above normal with the Greybull drainage being 84% above average. Reservoir storage is above normal for this time of year.

For more information contact your local Soil Conservation Service office.

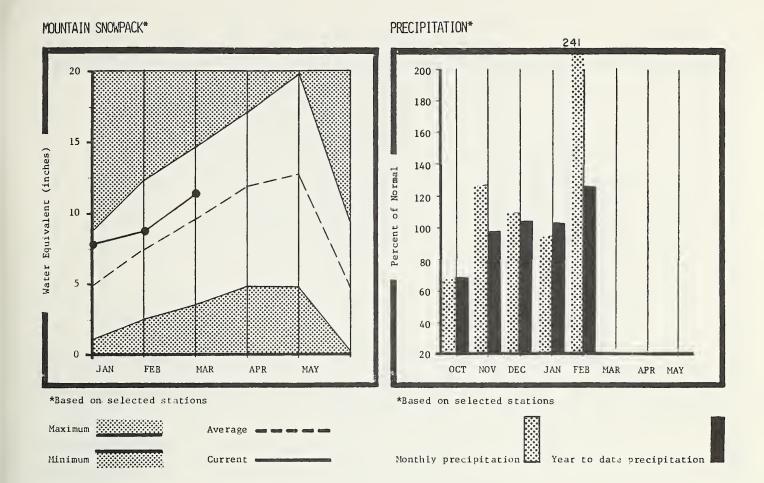
BIGHORN RIVER BASIN

FORECAST POINT	FORECAST PERIOD	20 YR, AVE, (1000AF)	MOST PROBABLE (1000AF)	MOST FROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLON (CFS)	PEAK DATE	LOH FLOH (CFS)	LON DATE
							- -			
WIND RIVER below Boysen *	AFR-SEP	1163.0	1750.0	150	174	126				
SHELL CREEK near Shéll	APR-SEP	78.0	78.0	100	129	79				
GREYBULL RIVER at Meeteetse	AFR-SEP	215.0	260.0	120	145	97				
GHOSHONE RIVER blw Buffalo Bill *	APR-SEP	845.0	1055.0	124	145	105				
CLARKS FORK near Belfry	AFR-SEP	628.0	705+0	112	142	82				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278.0	315.0	113	137	89				
NOWOOD RIVER near Tensleep	MAR-SEP	71.0	75+0	105	130	82				

	RESERVOIR STORAGE	(1000AF)	!	WATERSHED SA	OWPACK AN	ALYSIS	
RESERVOIR	USEAELE I CAPACITYI I		AGE ** ! AVE, !	WATERSHED	NO. COURSES AVE.D	THIS YEA	
EOYSEN	549.9	602.1 321.8	295.0	SHOSHONE RIVER	10	188	156
BUFFALO BILL	373.1	275,2 238,5	169.0	NOWOOD RIVER	5	164	
BIGHORN LAKE	1356.0	733.5 854,9	590+4	GREYBULL RIVER	4	200	184
				SHELL CREEK	7	149	113
				BIGHORN (Boysen-Bighorn)	35	173	131

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

POWDER AND TONGUE RIVER BASINS



WATER SUPPLY OUTLOOK:

Streamflow forecasts are near to slightly above average. Snowpack buildup is near normal. Precipitation for the month was 141% above average. For the year precipitation is about 24% above average. If current conditions continue, water users can expect sufficient water supplies for the spring and summer.

For more information contact your local Soil Conservation Service office.

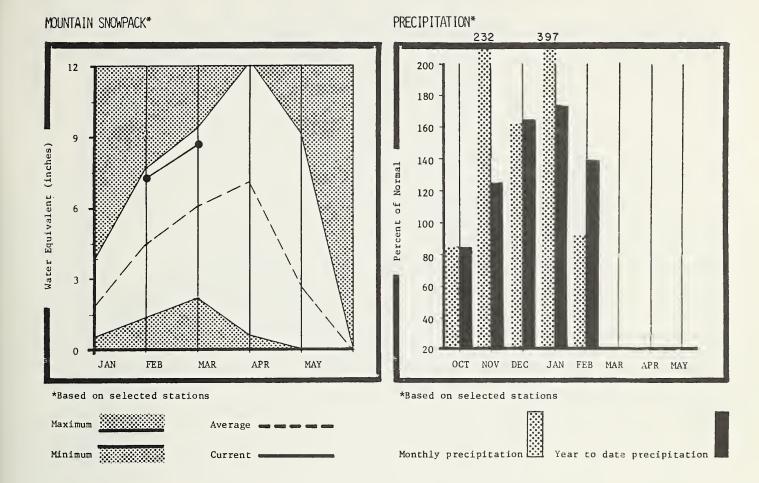
POWDER and TONGUE RIVER BASINS

FORECAST POINT	FORECAST	AVE.	MOST PROBABLE	MOST PROBABLE	REAS.	REAS.	PEAK FLOW	PEAK	LON FLOW	LOH
	PERIOD	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
TONGUE RIVER mear Dayton ¥	APR-SEP	123.0	130.0	105	133	78				
MIDDLE FORK POWDER near Barnum	APR-SEP	21.6	23.0	106	139	74				
NORTH FORK POWDER near Hazelton	APR-SEP	10.6	11.5	108	142	75				
CLEAR CREEK near Buffalo	APR-SEP	40.0	44.3	110	145	78				
ROCK CREEK near Buffalo	APR-SEP	25.4	28.0	110	146	75				
PINEY CREEK at Kearny	APR-SEP	54.8	60.0	109	144	75				
LITTLE BIGHORN at Hardin, MT	APR-SEP	182.0	218.0	119	167	64				

	RESERVOIR STORAGE		(1000AF)	 		WATERSHE	D SNOWPACK AN	ALYSIS	
RESERVOIR	USEABLE CAPACITY		EABLE STORA LAST YEAR	AGE ** 1 AGE ** 1 AVE, 1	WATERSHED		NO. COURSES AVE.D	THIS YEAR	AS % OF
TONGUE RIVER	68.0	24.6	10.2	34.4 1	UPPER TONG	JE RIVER	13	136	113
					GOOSE CREEK	<	6	139	111
					CLEAR CREEK	(3	202	130
					CRAZY WOMAN	1 CREEK	3	203	109
					POWDER RIVE	ER .	29	148	112

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

BELLE FOURCHE AND CHEYENNE RIVER BASINS



WATER SUPPLY OUTLOOK:

Precipitation during the month was only about 91% of normal which led to a reduction in the snowpack percentage. The snowpack remains above average by nearly 31%. However, this is a reduction from the previous months percentage. Reservoir storage on the Belle Fourche drainage is below normal. The remaining reservoir storage in the basin is near to slightly above average.

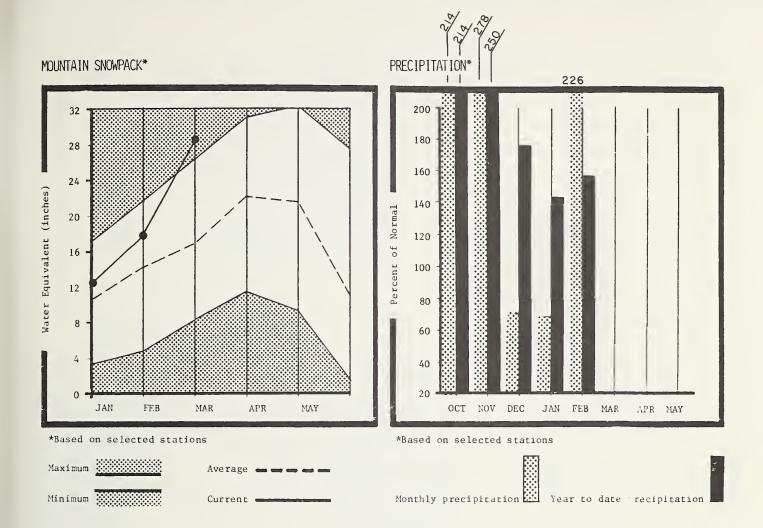
For more information contact your local Soil Conservation Service office.

BELLE FOURCHE and CHEYENNE RIVER BASINS

		STRE	AMFLOW FORE	CASTS						
FORECAST POINT		AVE.		PROBABLE	REAS. MAX.	REAS.	FLOW	EAK ATE	LOW FLOW (CFS)	LOW
-No forecasts issued i								-		
	RESERVOIR STORAGE USEABLE 1		ABLE STORAG				IED SNOWFACI			 IR AS % C
RESERVOIR		** USE THIS YEAR	ABLE STORAG LAST YEAR	GE ** AVE.	WATERSHEO		NO. COURS	T SES -	HIS YEA	AVERAG
	USEABLE I CAPACITYI I	** USE THIS YEAR	ABLE STORAG LAST YEAR	GE ** 			NO. COURS AVE.(T SES - O L	HIS YEA	AVERAG
 NGOSTURA	USEABLE I CAFACITYI I 86.2	** USE THIS YEAR	ABLE STORAG LAST YEAR 53.7	SE ** AVE. 58.6			NO. COURS AVE.(T SES - O L	HIS YEA	AR AS % O AVERAG
NGOSTURA ELLE FOURCHE	USEABLE I CAPACITYI I 86.2 185.2	** USE THIS YEAR	ABLE STORAG LAST YEAR 53.7	AVE. 58.6 114.0			NO. COURS AVE.(T SES - O L	HIS YEA	AVERAG
NGOSTURA ELLE FOURCHE EERFIELO	USEABLE I CAPACITYI I 86.2 185.2	** USE THIS YEAR 80:0 75.7	ABLE STORAG LAST YEAR 53.7 135.1	AVE. 58.6 114.0 13.2			NO. COURS AVE.(T SES - O L	HIS YEA	AVERAG
RESERVOIR INGOSTURA SELLE FOURCHE SEERFIELO SEYHOLE SACTOLA	USEABLE CAPACITY	** USE THIS YEAR 80:0 75.7	ABLE STORAG LAST YEAR 53.7 135.1 15.6	AVE. 58.6 114.0 13.2			NO. COURS AVE.(T SES - O L	HIS YEA	AVERAG

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS



WATER SUPPLY OUTLOOK:

Streamflow prospects in the Little Snake River Basin improved during the month. Forecasts predict flows to be nearly 30% above normal. Streamflows expected for the Upper North Platte Basin remain above average. Precipitation during the month was much above average at 126%. Year to date precipitation is about 60% above normal. Snowpack accumulation also is above average with the Little Snake River Basin being between 13% and 34% above average and the Upper North Platte Basin being 40% above average.

For more information contact your local Soil Conservation Service office.

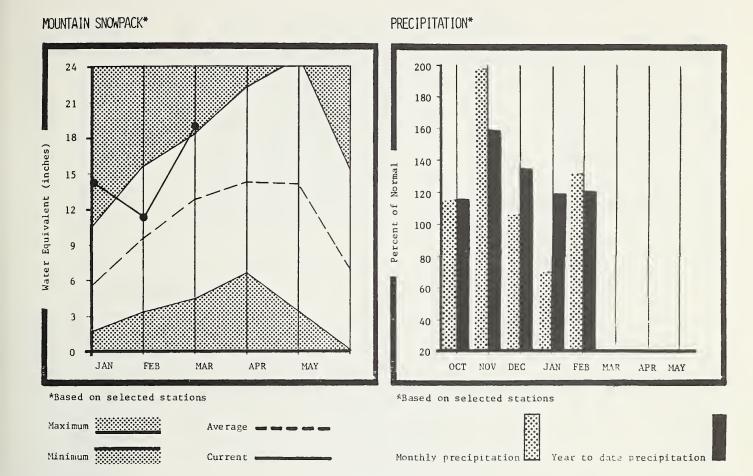
UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

FORECAST POINT	FORECAST PERIOO	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW	LOH
	LEKTOO	(1000HF)				(% MVE+)			(CFS)	OATE
NORTH FLATTE RIVER near Northgate	APR-SEP	262.0	330.0	125	150	102				
NORTH PLATTE RIVER near Sinclair	AFR-SEP	710.0	852.0	120	148					
ENCAMPMENT RIVER near Encampment	APR-SEP	156.0	195.0	125	149	101				
ROCK CREEK near Arlington	APR-SEP	57.6	75.0	130	155	106				
LITTLE SNAKE RIVER near Dixon *	AFR-SEP	320.0	412.0	128	159	99				
LITTLE SNAKE near Slater, CO *	APR-SEP	158.0	200,0	126	156	97				

	RESERVOIR STORAGE	(1000AF)			I WATERSHEO SNOWPACK ANALYSIS						
RESERVOIR	USEABLE I				WATERSHED	NO. COURSES AVE.D	THIS YEAR	R AS % OF			
VESEKAOTK	CAPACITYI I	THIS YEAR			LAST YR.		AVERAGE				
SEMINOE	1017.3	579.8	936.0	347.0	UPPER NORTH PLATTE	7	153	134			
					ENCAMPMENT RIVER	3	145	137			
					BRUSH CREEK	3	155	136			
					MEDICINE BOW & ROCK CREEK	3	184	143			
				<u> </u>	N. PLATTE above SEMINOE	14	182	149			
				·····	UPPER LITTLE SNAKE RIVER	1		120			
					SAVERY CREEK	1	139	134			

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS



WATER SUPPLY OUTLOOK:

Streamflow outlook remains rosey for the basin except for the Deer and LaPrele Creeks. These drainages are predicted to be about 4% below normal. Flows for the remainder of the basin should be above average. Snowpack continues to be above average for most of the basin. Precipitation for the month was about 32% above normal and is about 21% above average for the year. Reservoir storage is above average in Seminoe and Pathfinder, and below average in the remaining main stem dams.

For more information contact your local Soil Conservation Service office.

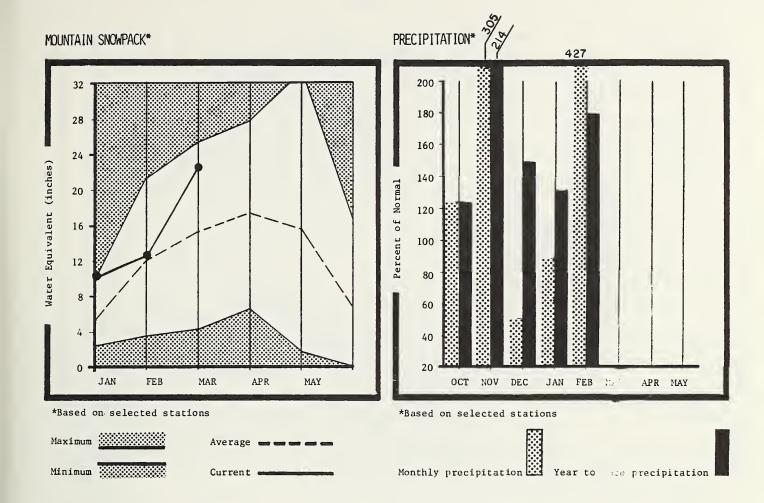
LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

FORECAST POINT	FORECAST	20 YR. AVE.	MOST PROBABLE	MOST PROBABLE	REAS.	REAS. MIN.	PEAK FLOW	PEAK	LOH FLOH	LOH
	PERIOD	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	852.0	120	148	70				
SWEETWATER RIVER near Alcova	APR-SEP	73.7		135						
DEER CREEK at Glenrock	APR-SEP	51.8		76						
aFRELE CREEK above Reservoir	APR-SEP	33.7		76						
LARAMIE RIVER near Woods *	APR-SEP	132.0		132						
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65.1	84.0	129	157	191				

	RESERVOIR STORAGE	(1000AF)	I HATERSHED SNOWPACK ANALYSIS I						
RESERVOIR	USEABLE I CAPACITYI I		I HATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF				
ALCOVA	184.3	147.9 156.4 162.7	SHEETHATER	4	290 200				
GLENDO	789.4	175.9 368.2 383.0	DEER & LaPRELE CREEKS	2	110 95				
GUERNSEY	45.6	12.3 32.4 12.7	N. PLATTE above LARAMIE	12	162 133				
PATHFINDER	1016.5	780.8 886.4 547.0	LITTLE LARAMIE RIVER	4	184 127				
SEMINOE	1017.3	579.8 836.0 347.0	•	2	159 152				
WHEATLAND \$2	98.9	69.0 73.1 48.7	LARAMIE RIVER above MOUTH	10	174 130				
NORTH PLATTE PROJ		682:1 1054:0 653:8	NORTH PLATTE in HYOMING	39	177 144				
KENDRICK PROJECT	1201.7	1108.3 1004.3 755.7							
GLENDO PROJECT USERS		NG REPORT	•						

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

UPPER GREEN RIVER BASIN



WATER SUPPLY OUTLOOK:

Above average streamflows can be expected by the water users this spring and summer. Precipitation for the month was over 300% of normal and is nearly 81% above average for the year. The heavy precipitation led to a continued snowpack buildup that is above average. Snowpack is between 43% and 67% above normal for the basin. With the exception of Fontenelle Reservoir, all basin reservoir storage is above normal.

For more information contact your local Soil Conservation Service office.

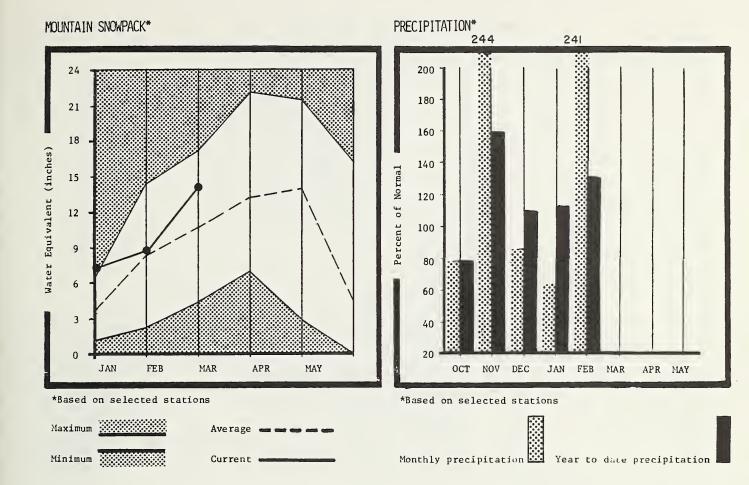
UPPER GREEN RIVER BASIN

FORECAST POINT	FORECAST FERIOD	20 YR, AVE, (1000AF)	MOST PROBABLE (1000AF)	MOST FROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK OATE	LOW FLOW (CFS)	LOH DATE
GREEN RIVER near Warren Bridge	APR-SEP	326.0	432.0	132	149	116				
FONTENELLE RESERVOIR Inflow	AFR-JUL	869.0	1250.0	143	165	122				
LaBARGE CREEK at LaBarge Meadows	AFR-SEP	8.9	12.1	135	157	112				
BIG SANOY RIVER near Big Sandy	APR-SEP	61.0	92.0	150	175	126	1200			

	RESERVOIR STORAGE	(1000AF)	I WATERSHEO SNOWPACK ANALYSIS						
RESERVOIR	USEABLE CAPACITY		WATERSHED	NO. COURSES AVE.O	THIS YEAR AS % OF				
BIG SANDY	38.3	21.0 24.2 17.2	GREEN above WARREN BRIDGE	4	237 162				
EOEN	11.8	7.0 2.5	UPPER GREEN (West Side)	7	184 143				
FLAMING GORGE		2958.0 3036.5	NEWFORK LAKE	3	259 163				
FONTENELLE	344.8	35.9 168.3 167.1	BIG SANOY/EOEN VALLEY	2	216 167				
			GREEN above FONTENELLE	12	205 150				

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

LOWER GREEN RIVER BASIN



WATER SUPPLY OUTLOOK:

Accumulated snowpack remains above average for the basin. It ranges from 19% to 50% above normal. Expected streamflows for spring and summer likewise are above average. Precipitation for February was above average by 141%. For the year it is about 34% above normal.

For more information contact your local Soil Conservation Service office.

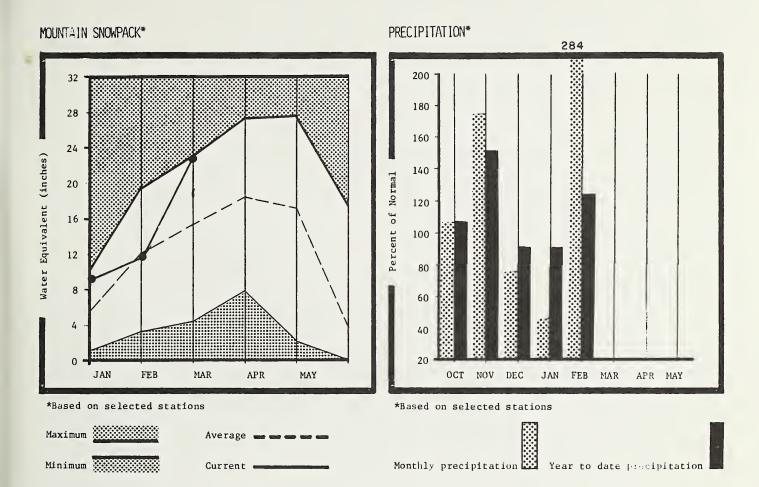
LOWER GREEN RIVER BASIN

FORECAST FOINT	FORECAST	20 YR. AVE.	MOST F'ROBABLE	MOST PROBABLE	REAS.	REAS. MIN.	PEAK FLOW	PEAK	LOW FLOW	LOH
TONECHST TOTAL	PERIOD	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1250.0	143	165	122				
IAMS FORK near Frontier	APR-SEP	71.3	120.0	168	195	142				
REEN RIVER near Green River, WY *	AFR-SEP	1079.0	1450.0	134	154	114				
LACKS FORK near Milburne, UT	APR-JUL	89.9	120.0	133	168	102				
HENRYS FORK near Manila, UT	APR-SEP	48.0	62.5	130	169	100				
FLAMING GORGE Inflow *	AFR-JUL	1248.0	1900.0	152	178	129				

RESERVOIR STORAGE		(1000AF)	 	WATERSHED SNOWPACK ANALYSIS					
RESERVOIR	USEAELE I CAPACITYI I		1 AGE ** I I AVE, I	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF			
FONTENELLE	344.8	35.9 168.3	167.1	HAMS FORK RIVER	3	197 150			
FLAMING GORGE	3749.0	2958.0 3036.5		BLACKS FORK	4	134 126			
VIVA NAUGHTON RES		NO REPORT		HENRYS FORK	1	123 119			
				GREEN above FLAMING GORGE	15	203 150			

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

UPPER BEAR RIVER BASIN



WATER SUPPLY OUTLOOK:

Snowpack in the Smiths Fork and Thomas Fork portion of the basin is about 52% above normal. The snowpack for the rest of the basin is nearly 36% above normal. Precipitation for the month was 184% above average. Precipitation for the year is 24% above average. Forecasted streamflows for the spring and summer are 42% above normal.

For more information contact your local Soil Conservation Service office.

UPPER BEAR RIVER BASIN

FORECAST POINT	FORECAST	20 YR. AVE.	MOST PROBABLE	MOST PROBABLE	REAS. MAX.	REAS. MIN.	PEAK FLOW	PEAK	LON Flon	LOH
	PERIOD	(1000AF)	(1000AF)	(% AVE.)	(% AVE.)	(% AVE.)	(CFS)	DATE	(CFS)	DATE
SMITHS FORK near Border	APR-SEP	119.0	170.0	142	167	118				
THOMAS FORK near State line	APR-SEP	35.1		142						
INDIAS FORK HEST STOLE TIME	HIN-SEI	33+1								
BEAR RIVER at Utah-Wyoming line	APR-JUL	110.0	147.0	135	157	117				
	455 00	400.4								
BEAR RIVER near Woodruff, UT	APR-JUL	139.0		130						
BEAR RIVER near Randolph, UT	APR-JUL	110.0	222.0	201	254	150				
·										

	RESERVOIR STORAGE	(1000AF) I	I WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE I CAPACITYI I	** USEABLE STORAGE ** I THIS LAST I YEAR YEAR AVE. I	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF		
HOODRUFF NARROWS	55.8	34.2 57.8	UPPER BEAR RIVER SMITHS & THOMAS FORK'S BEAR RIVER abv IDAHO line	3 3 10	141 136 195 152 163 140		

^{*}Corrected for upstream diversions or changes in reservoir storage. Average is for 1961-80 period.

THE FOLLOWING ORGANIZATIONS COUPERATE WITH THE SOIL CONSERVATION SERVICE IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming
State Engineer of Wyoming
Department of Water Resrouces of Nebraska
Irrigation Districts of Wyoming
University of Wyoming
Department of Atmospheric Resources
Department of Agricultural Engineering

Federal

- U.S. Department of Agriculture
 Soil Conservation Service
 Forest Service
- U.S. Department of Commerce
 NOAA, National Weather Service
- U.S. Department of Interior

 Bureau of Reclamation

 Geological Survey

 National Park Service

 Bureau of Indian Affairs

 Bureau of Land Management

Private

Utah Power and Light Company Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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